PCT





INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 7:		(11) International Publication Number:	WO 00/56844
C10L 3/10, B01D 53/26	A1		
,		(43) International Publication Date: 28	8 September 2000 (28.09.00)

GB

(21) International Application Number: PCT/GB00/01070

(22) International Filing Date: 21 March 2000 (21.03.00)

(30) Priority Data: 9906717.5 23 March 1999 (23,03,99) G

(71) Applicant (for all designated States except US): DEN NORSKE STATS OLJESELSKAP A.S. [NO/NO]; N-4035 Stavanger (NO).

(72) Inventors; and

(75) Inventors/Applicants (for US only): NILSEN, Finn, Patrick [GB/NO]; Sore Furudalen 3, N-5044 Nattland (NO). LINGA, Harald [NO/NO]; Kringlebotn 267, N-5050 Nesttun (NO).

(74) Agents: REES, David, Christopher et al.; Kilburn & Strode, 20 Red Lion Street, London WC1R 4PJ (GB). (81) Designated States: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European

patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR,

IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published

With international search report.

(54) Title: METHOD AND APPARATUS FOR THE DRYING OF NATURAL GAS

(57) Abstract

A system for removing water from natural gas which comprises: bringing the natural gas into contact with a liquid including an absorbent for the water; subjecting the natural gas and liquid to turbulent mixing conditions thereby causing the water to be absorbed by the absorbent; and separating a natural gas phase with reduced water content and a liquid phase including the absorbent and absorbed water. The mixing is conducted in a turbulent contactor (11) including a gas inlet (15), a liquid inlet (16), an outlet (104) leading to a venturi passage (105) and a tube (106) extending from the outlet (104) back upstream. The tube (106) may be perforated and/or spaced from the periphery of the outlet (104).

